NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

LENS/FILM RESOLVING POWER

AREA WEIGHTED AVERAGE RESOLUTION (AWAR)

$$AWAR = \sum \frac{A_i}{A}\sqrt{R_i T_i}$$

$$= \frac{A_i}{A}\sqrt{R_1 T_1} + \frac{A_2}{A}\sqrt{R_2 T_2} + \text{-----}$$

A_i = AREA OF A PARTICULAR ZONE

R_i = AVERAGE RADIAL RESOLVING POWER IN THIS ZONE

T_i = AVERAGE TANGENTIAL RESOLVING POWER IN THIS ZONE

A = TOTAL AREA OF THE PICTURE FORMAT

NOTE: *WHEN THE TANGENTIAL & RADIAL RESOLUTION DIFFER BY LESS THAN A FACTOR OF 2 TO 1; THE ARITHMETIC MEAN OF THE TANGENTIAL & RADIAL RESOLUTIONS MAY BE USED.*

NPIC N-1245 (11 68)

CONTROL NO. _____

CLASSIFICATION _____

TITLE _____

REQUESTOR _TSSG/APSD_

DATE COMPLETED _2 DEC 68_

25X1